

Wetting and Dispersing Additive

SURFADIOLS 110

(Alternative to Disperbyk-110)

SURFADIOLS 110 is a wetting and dispersing additive for solvent-borne systems. It is composed of a solution of a copolymer with acidic groups. This product is suitable for stabilizing inorganic pigments, especially titanium dioxide, and strongly reduces millbase viscosity.

The additive deflocculates pigments by means of steric stabilization. As a result of the small particle sizes of the deflocculated pigments, high levels of gloss can be achieved and the color strength is improved. Transparency and hiding power also increase and viscosity is reduced. In this way, the flow characteristics are also improved and higher pigment loading is possible. For inorganic pigmented coatings, which are applied using electrostatic high rotation equipment, haze is significantly reduced.

Typical properties

Appearance	Light yellow liquid
Composition	Solution of a copolymer with acidic groups
Solid content (120°C, 2h)	53%
Solvent	xylene / butyl acetate
Acid value: mg KOH/g	35-58
Density (20°C), g/cm ³	1.0
Flash point	>42°C

Special properties

- Wetting and dispersing additive for solvent-borne coatings and printing inks
- Stabilizes inorganic pigments, in particular titanium dioxide
- Prevents flooding/floating
- Reduces mill-base viscosity
- Improves leveling, and higher pigment loading
- Offers high gloss, and improved color strength
- Reduces haze in inorganic pigmented coatings when application occurs by electrostatic spraying

Scope of application

The additive is recommended for all solvent-borne coatings and printing inks to stabilize inorganic pigments, specifically titanium dioxide.

Industrial Coatings

Coil Coatings

Can Coatings

Wood and Furniture Coatings

Production of Pigment Concentrates

Automotive Coatings

Architectural Coatings

Anti-corrosion Coatings

Printing Inks

Incorporation and Processing Instructions

For optimum performance, the additive must be incorporated into the millbase before addition of pigments. Mix well before use.

Recommended Levels

Amount of additive (as supplied) based upon pigment:

Inorganic pigments: 5% - 10%

Titanium dioxides: 2% - 4%

The above recommended levels can be used for orientation. Optimal levels are determined through a series of laboratory tests.

Package and storage

The standard package is 25kg or 200kg plastic/iron drums.

As a result of its high acid value, the additive may potentially accelerate the reaction of baking systems. Check the increase in viscosity during storage.

Keep containers tightly closed in a dry, cool, and well-ventilated place. Separation and turbidity may occur. Heat to 30-40°C and stir.

When stored in an original unopened packaging, the product has a shelf life of 24 months from the date of manufacture.